



442165

SITE DESCRIPTION/EXECUTIVE SUMMARY

Site Name and Location

Wickes Engineered Materials
1621 E. Holland Ave.
Saginaw, MI 48601

County: Saginaw
Michigan Code Number: 73-12N-05E-30CA
DNR District: Saginaw
EPA ID Number: MID085033173

SAS Score/Screen No.: 08

This site now occupied by U.S. Graphite, a division of Wickes Companies, Inc., produces carbon-graphite products such as seals and bearings. Soil and groundwater samples taken near the site of a former building, product storage area, and drying pit have shown volatile organic chemicals in parts per million and parts per billion respectively. Notably, soil sampling has detected methylene chloride at 110 mg/kg, 1,1,1-trichloroethane at 370 mg/kg and trichloroethene at 410 mg/kg. Groundwater monitoring has shown 1,2-dichloroethane at 48 ug/l and trichloroethene at 15 ug/l. The site is well fenced and all downgradient residents are believed to be served by the municipal water supply.

Clean-up efforts are presently in the initial stages. A work plan has been submitted by U.S. Graphite for clean up efforts and approved by the MDNR with specified changes.

Recommendations to the EPA

A "high" priority for inspection is recommended. The horizontal and vertical extent of soil and groundwater contamination is unknown at present. Additional sampling is necessary to define the areal extent of contamination. MDNR Saginaw District Hazardous Waste Division and Groundwater Quality Division files should be sufficient for HRS scoring.

Date of Previous Summary:
Previous Author:

Current Date: 9/26/85
Author: Chris Grobbel

Site Assessment Unit
Groundwater Quality Division
Michigan Dept. of Natural Resources

Walt
10/4/85

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Michigan Dept. of Natural Resources



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D085033173

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Wicker Engineered Materials		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 1621 C. Holland Ave			
03 CITY Saginaw	04 STATE MI	05 ZIP CODE 48601	06 COUNTY Saginaw	07 COUNTY CODE 145	08 CONG DIST 8
09 COORDINATES LATITUDE 43° 24' 50.0"		LONGITUDE - 83° 55' 45.0"		Saginaw-Dual (75) USGS 1973	

10 DIRECTIONS TO SITE (Starting from nearest public road)

I-74 to Holland ave exit; west on Holland 1 3/4 mile to Sth; (on south-side of street 1/4 mi west of Tennessee Ave)

III. RESPONSIBLE PARTIES

01 OWNER (if known) U.S. Graphite - div of Wicker Corp.		02 STREET (Business, mailing, residential) same as above			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER 517 755-0441		
07 OPERATOR (if known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER		

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A. RCRA 3001 DATE RECEIVED: 2-9-81 ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 d) DATE RECEIVED: ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 9-85 <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: CONTRACTOR NAME(S):			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION 1905 - 1984 - sold to US Graphite BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
1,1 trichloroethane 1,1 dichloroethene tetrachloroethene
1,1-dichloroethane methylbenzene Chloride & other VOC's
trichloroethane toluene

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Soils (pop/environment) Air (envir/pop)
Groundwater (pop/environment) Worker Exposure (pop)
Drinking water (pop)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☒ A. HIGH ☐ B. MEDIUM ☐ C. LOW ☐ D. NONE

VI. INFORMATION AVAILABLE FROM

01 CONTACT Dan Schultz	02 OF (Agency/Organization) MDNR Saginaw Dist GWO	03 TELEPHONE NUMBER 517 771-7731
04 PERSON RESPONSIBLE FOR ASSESSMENT Michael N. Beaulac	05 AGENCY MDNR	06 ORGANIZATION Groundwater Qual
	07 TELEPHONE NUMBER 517 373-4800	08 DATE 09-26-85 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER

ME | D085033173

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
B POWDER FINES
C SLUDGE
D OTHER _____
(Specify)
- E SLURRY
F LIQUID
G GAS

02 WASTE QUANTITY AT SITE

Measures of waste quantities
must be independent

TONS

CUBIC YARDS

NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A TOXIC
☐ B CORROSIVE
☐ C RADIOACTIVE
☐ D PERSISTENT

- ☐ E SOLUBLE
☐ F INFECTIOUS
☐ G FLAMMABLE
☐ H IGNITABLE

- ☒ I HIGHLY VOLATILE
☐ J EXPLOSIVE
☐ K REACTIVE
☐ L INCOMPATIBLE
☐ M NOT APPLICABLE

old lagoons
dry pit
- storage area for barrels

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			found in groundwater / soil sampling 1984
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	1,1 Dichloroethane	75-34-3	dry pit area	20.	mg/kg
OCC	1,2 Dichloroethane	107-06-2		0.32	mg/kg
OCC	1,1 Dichloroethene	75-35-4		3.8	mg/kg
OCC	trans(1,2)-Dichloroethene	540-57-0		.11	mg/kg
OCC	Methylene Chloride	75-09-2	Soil samples 4/10/1984	110	mg/kg
OCC	tetrachloroethene	127-18-4		.24	mg/kg
OCC	toluene	108-88-3		.2	mg/kg
OCC	1,1,1 trichloroethane	71-55-6		370	mg/kg
OCC	1,1,2-trichloroethane	79-00-5	groundwater samples 10/25/1984	.11	mg/kg
OCC	trichloroethene	79-01-6		110	mg/kg
OCC	1,1 Dichloroethane	75-34-3		9.	ug/l
OCC	1,2 Dichloroethane	107-06-2		48.	ug/l
OCC	1,1,1 Trichloroethane	71-55-6		5.	ug/l
OCC	Trichloroethene	79-01-6		15.	ug/l

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., State Reg. Sample Analysis Reports)

MDNR Groundwater Quality File
MDNR Saginaw Dist personnel
MDNR Aerial photos 1978



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MS 0085033173

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 69,983

02 ☒ OBSERVED (DATE: 10/25/84)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

- has been impacted with organics in ppb; area underlain by alternating sequences of sand and clay; flow assumed to the north-west.

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: N/A

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☒ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: 110,407

02 ☒ OBSERVED (DATE: 1/7/84)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

- toluene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethylene were detected in disposal pit samples in concentrations of less than 2 ppm - potential for volatilization & impact on ambient air

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: N/A

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: N/A

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

- N/A (area is securely fenced)

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: unknown
(ACRES)

02 ☒ OBSERVED (DATE: 4/10/84)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

- in drying pit area; soils are documented to be contaminated with organics in ppm; dispute as to removal of soils prior to area capping thru MDR & Wickes at present

01 ☒ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 69,983

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

- unknown if regional Saginaw Sandstone aquifer has been impacted or if contaminants have remained near the surface; monitor well depth unknown / not stated in R.T. Report by Wickes

01 ☒ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: 275

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

- extended exposure to priority pollutants in drying pit area through skin contact, inhalation and ingestion is a health risk potential

01 ☒ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: 110,407

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

- potential if groundwater or air is come into contact with by the surround population



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

MD 0085033173

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

N/A

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

N/A

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

N/A

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums)

03 POPULATION POTENTIALLY AFFECTED: 110,407

02 ☒ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

- drum storage area is near the area of surface contamination, soils near drying pit are contaminated, groundwater has been impacted

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

N/A

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

- potential for groundwater interflow of ditches / storm drains

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

N/A

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 110,407

IV. COMMENTS

- Clean-up efforts are being undertaken and intend to be continued by Wickes on the U.S. Graphite property once MDNR & Wickes can come to agreement on procedures

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

MDNR Groundwater Quality file
MDNR Saginaw Dist. personnel
and to U.S. Graphite